WHAT IS CLAIMED IS:

1. A method to install a tool in a well, comprising:

running the tool into the well; and

fixing the tool to the well with a fixing agent without pumping the fixing agent through a central passageway of the tool.

2. The method of claim 1, wherein the fixing agent comprises cement.

3. The method of claim 1, wherein the tool comprises a casing conveyed tool.

4. The method of claim 1, wherein the fixing comprises pumping the fixing agent into the well and then running the tool into the well.

5. The method of claim 4, further comprising:

isolating a bottom of the tool to prevent the fixing agent from entering the central passageway of the tool.

6. The method of claim 5, wherein the isolating comprises sealing off a bottom end of the tool.

7. The method of claim 4, wherein the fixing comprises:

running a tubing to a region where the tool is to be fixed to the well; and

communicating the fixing agent into the well via the tubing.

8. The method of claim 4, wherein the fixing comprises:

pumping the fixing agent into an uncased region of the well.

9. The method of claim 4, further comprising:
running a perforating gun string inside the tool; and
firing the perforating gun.

10. The method of claim 1, wherein the fixing comprises:
running the tool into the well; and
subsequently pumping the fixing agent into an annulus surrounding the tool.

11. The method of claim 10, wherein the pumping comprises:
using reverse circulation to pump the fixing agent into the annulus.

12. The method of claim 10, further comprising:
isolating the bottom of the tool to prevent the fixing agent from entering the central passageway of the tool.

13. The method of claim 10, further comprising:
running a perforating gun string inside the tool; and
firing the perforating gun.

14. The method of claim 1, wherein the fixing comprises:
running a casing into a wellbore of the well; and
running the tool inside the casing.

15. The method of claim 14, further comprising:
pumping the fixing agent between the casing and the tool.

16. The method of claim 14, further comprising:
running a perforating gun inside the tool; and
firing the perforating gun.

17. A method usable with a subterranean well, comprising:

running a tool into the well via a protection tubing;

introducing a fixing agent into the well after the running so that the fixing agent at least partially surrounds the tool; and

operating the tool after the fixing agent sets.

18. The method of claim 17, wherein the fixing agent comprises cement.

19. The method of claim 17, wherein the tool comprises a casing conveyed tool.

20. The method of claim 17, wherein the operating the tool comprises firing a perforating gun.

21. The method of claim 17, wherein the introducing the fixing agent comprises:

introducing the fixing agent via a tubing; and

retrieving the tubing after the introduction of the fixing agent.

22. The method of claim 17, were the tool is part of a perforating gun string, the method further comprising:

using the perforating gun string as a production tubing.

23. The method of claim 22, further comprising:

cleaning out the perforating gun string before using the gun string as the production tubing.

24. A method usable with a subterranean well, comprising:

introducing a tool into the well;

introducing a fixing agent into an annulus between the tool and a wall of the well;

isolating a central passageway of the tool from the fixing agent; and

operating the tool after the cementing.

25. The method of claim 24, wherein the operating the tool comprises:

firing a perforating gun.

26. The method of claim 24, wherein the introducing the fixing agent comprises:

running a tubing into the wellbore;

introducing the fixing agent via the tubing; and

retrieving the tubing after the introduction of the fixing agent.

27. The method of claim 24, wherein the tool is part of a perforating gun string, the method further comprising:

using the perforating gun string as a production tubing.

28. The method of claim 27, further comprising:

cleaning out the perforating gun string before using the gun string as the production tubing.

29. The method of claim 24, wherein the fixing agent comprises cement.

30. A method usable with a subterranean well, comprising:

running a tool into a wellbore of the subterranean well;

running a sensor into the wellbore next to the tool; and

using the sensor to monitor the introduction of a fixing agent to fix the tool inside the well.

31. The method of claim 30, wherein the using the sensor comprises:
using an optical fiber.

32. A perforating gun comprising:
a casing body comprising a longitudinal axis;
a fin radially extending from the casing body; and
a perforating charge attached to the fin and oriented to generate a perforation jet in a radial direction away from the longitudinal axis of the casing body.

33. The perforating gun of claim 32, further comprising:
a plug to seal a passageway in the casing body, the plug adapted to rupture in response to the perforating charge firing to open communication through the casing body.

34. The perforating gun of claim 32, wherein the fin includes a groove adapted to receive a detonating cord that is coupled to the perforating charge.

35. The perforating gun of claim 32, wherein the perforating charge is adapted to permit well fluid to flow through the remnants of the perforating charge after firing of the perforating charge.

36. The perforating gun of claim 32, further comprising:
a ballistic junction to couple a detonating cord extending to the perforating charge to a detonating cord extending to a perforating charge of another perforating gun.

37. The perforating gun of claim 36, wherein the ballistic junction comprises:
a first sleeve adapted to receive the first detonating cord; and
a second sleeve coupled to the first sleeve adapted to receive the second detonating cord.

38. The perforating gun of claim 36, further comprising:

a detonating cord circumferentially disposed around the casing body to transfer charges between detonating cords of the perforating gun.

39. The perforating gun of claim 32, wherein the fin is one of a plurality of fins radially extending from the casing body.

40. The perforating gun of claim 39, wherein the perforating charge is one of a plurality of perforating charges disposed in the fins and oriented to generate perforation jets in radial directions from the longitudinal axis of the casing body.

41. The perforating gun of claim 40, wherein at least one of the perforating charges is adapted to permit well fluid to flow through the remnants of the perforating charge after firing of said at least one perforating charge.

42. The perforating gun of claim 40, wherein the perforating charges are oriented in a planar phasing pattern.

43. The perforating gun of claim 40, wherein the perforating charges are oriented in a spiral phasing pattern.

44. The perforating gun of claim 39, wherein each of the fins includes a groove adapted to receive a detonating cord.

45. A system usable with a subterranean well comprising:

a fixing agent; and

a tool set in the fixing agent, a bottom end of the tool being sealed to prevent the fixing agent from entering the tool before the fixing agent is set.

46. The system of claim 45, wherein the tool comprises a perforating gun.

47. The system of claim 45, wherein the fixing agent comprises cement.

48. A system usable with a subterranean well, comprising:
a fixing agent;
a perforating gun string set in the fixing agent,
wherein the perforating gun is adapted to produce well fluid from the well through the production tubing after the perforating gun fires.

49. The system of claim 48, wherein the fixing agent comprises cement.

50. The system of claim 48, further comprising:
an optical fiber attached to the gun string; and
a circuit coupled to the optical fiber and adapted to monitor the fixing agent prior to setting of the fixing agent.

51. The system of claim 50, wherein the circuit is adapted to use the optical fiber to monitor a temperature of the fixing agent.

52. A method usable with a subterranean well comprising:
forming a section of a casing string to be inserted into a subterranean well;
forming an outer fin on the casing section; and
attaching a perforating charge to the fin, the perforating charge being oriented to generate a perforation jet in a radial direction away from a longitudinal axis of the casing body.

53. The method of claim 52, further comprising:
inserting a plug into a passageway of the casing body, the plug adapted to rupture in response to the perforating charge firing to open communication through the casing body.

54. The method of claim 52, further comprising:

forming a groove in the fin to receive a detonating cord.

55. The method of claim 52, further comprising:

flowing well fluid through the remnants of the perforating charge after firing of the perforating charge.

56. The method of claim 52, further comprising:

ballistically coupling the perforating charge to another perforating charge of an adjacent casing section.

57. The method of claim 52, further comprising:

forming at least one additional outer fin on the casing section.

58. The method of claim 57, further comprising:

attaching at least one additional perforating charge to said at least one additional outer fin.

59. The method of claim 58, further comprising:

flowing well fluid through the remnants of the perforating charges after firing of the perforating charge.

60. The method of claim 57, further comprising:

forming at least on additional groove in said at least one additional outer fin to receive a detonating cord.